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(54) Title: p53CP, A PROTEIN THAT SPECIFICALLY BINDS TO CONSENSUS p53 DNA BINDING SITES

(57) Abstract

p53 Tumor suppressor protein negatively regulates cell growth, mainly through the transactivation of its downstream target genes. As a sequence specific DNA binding transcriptional factor, p53 specifically binds to a 20 bp consensus motif 5'-PuPuPuC(A/T)(T/A)GPyPyPuPuPuC(A/T)(T/A)GPyPyPy-3'. We have now identified, partially purified and characterized an additional nuclear protein, p53CP (p53 competing protein) that specifically binds to consensus p53 binding sites found in several p53 downstream target genes including Waf-1, Gadd45, Mdm-2, Bax, and RGC.

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